

Kennecott
Utah Copper
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Mine file through
W. Hedby

DOGM
MINERALS PROGRAM
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m/035/002

Kennecott

June 1, 1989

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DIVISION OF
OIL, GAS & MINING

Mr. Lowell P. Braxton, Administrator
Mineral Resource Development and
Reclamation Program
State of Utah Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Mr. Braxton:

Enclosed is the annual mined land reclamation report for Kennecott's Utah Copper Division which is being submitted in compliance with the Utah State Mined Land Reclamation Act of 1975.

Very truly yours,



M. H. Gibson, Director
Environmental Affairs

TF/bsh

Enclosures

cc:

G. H. Boyce
G. P. Cassity
R. K. Davey
B. G. McKee
W. R. Strickland

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MINED LAND RECLAMATION ANNUAL REPORT
OCTOBER 1, 1987 TO SEPTEMBER 30, 1988

KENNECOTT
UTAH COPPER DIVISION
May 1989

MINED LAND RECLAMATION ANNUAL REPORT
OCTOBER 1, 1987 TO SEPTEMBER 30, 1988

KENNECOTT - UTAH COPPER DIVISION

Introduction

The following report is submitted to the Utah State Division of Oil, Gas and Mining as prescribed under paragraph (b), Rule M-8, Utah State Mined Land Reclamation Act of 1975. The report summarizes work performed during the period October 1, 1987 to September 30, 1988 as approved on the Notice of Intention to Commence Mine Operations #Act-035-002, August 9, 1976 and subsequent surety agreement.

Location of Operations

Under the original notice, the operations of the Bingham mine and concentrator were conducted in the following sections of Salt Lake and Tooele counties:

Sec 7, 8, 9, 10, 11, 17, 18, 19, 20, 21, 30, 31, & 32, T1S, R2W, SLB&M; Sec 9, 10, 11, 12, 13, 14, 15, 16, 22, 23, 24, 25, 26, & 36, T1S, R3W, SLB&M; Sec 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 22, 23, 27, 28, & 33, T2S, R2W, SLB&M; Sec. 7, 8, 17, 18, & 19, T3S, R1W, SLB&M; Sec. 4, 5, 6, 7, 8, 13, 14, 15, 16, 17, 18, 19, 20, 21, 24, 25, 28, 29, 30, 31, & 32, T3S, R2W, SLB&M; Sec. 4, 5, 6, 7, 11, 12, 13, 14, 15, 21, 22, 23, 24, 25, 26, 27, 33, 34, 35, & 36, T3S, R3W, SLB&M; Sec. 6, 7, 23, 26, & 27, T4S, R2W, SLB&M; Sec. 1, 2, 3, 11 & 12, T4S, R3W, SLB&M.

Disturbance of the natural terrain during the period was confined to the following sections in Salt Lake County:

Sec. 30 and 31 T3S, R2W, SLB&M.

Sec. 22, 26, 27, 34, and 36, T3S, R3W, SLB&M.

During the reporting period, mining operations mined an estimated 28,481,631 short tons of ore.

During the reporting period, an estimated 24,931,720 short tons of waste material was removed from the mine and deposited on waste dumps. Mining cuts, waste disposal operations and construction work disturbed an estimated 45.91 acres of previously undisturbed ground. Attached is a map showing the disturbed areas. These areas are summarized as follows.

1.	Area disturbed by truck waste operations	23.96 acres
2.	Area disturbed by construction work	6.28 acres
3.	Area disturbed by mining	<u>15.67 acres</u>
	TOTAL	45.91 acres

No other major disturbance of natural ground occurred in the area of the Bingham Canyon Mine.

Reclamation Work Accomplished During Reporting Period

1. Tailing Pond Dike

Seeding of areas around the pond where the dike was raised, and also reseeding of problem areas where plant population was not suitable were performed. Additional trees were planted on the dike, and the trees that were planted in previous years were pruned.

The tailings pond dike soil is primarily of tailing material which requires frequent application of commercial fertilizer to maintain good plant growth.

An extensive seeding program for soil stabilization of the outer dikes was continued in the fall of 1987. Trial seeding and soil analysis were conducted to determine seeding mixtures that would maximize plant growth and increase the effectiveness of surface stabilization resulting from the new vegetative cover. Some of the areas to be seeded were first smoothed to enhance the effectiveness of the program. The total area revegetated on the tailing pond during this period was 150 acres. The areas which had sparse growth were reseeded and refertilized in the spring. The planting program for 1-1/4" caliper trees on exterior beach areas was continued.

REVEGETATION PROGRAM
10/1/87 - 9/30/88

Seed, fertilizer and soil conditioner	sub-total	\$24,862
Tree and shrub planting	sub-total	\$37,071
Hydromulch	sub-total	\$ 1,475
New equipment and equipment rental	sub-total	\$ 8,270
Research and development	sub-total	\$53,368
Salaries	sub-total	<u>\$52,000</u>
TOTAL		\$177,046